

FORM PTO-1449		DOCKET NUMBER		APPLICATION NUMBER			
INFORMATION DISCLOSURE CITATION IN AN APPLICATION		NPW 329C		10/802,657			
		APPLICANTS DAVID J. EDLUND, CHARLES R. HILL, WILLIAM A. PLEDGER and R. TODD STUDEBAKER					
		FILING DATE March 16, 2004		GROUP ART UNIT 1724			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.	
RHS	2,824,620	2/25/1958	De Rosset	—	—		
RHS	2,958,391	11/1/1960	De Rosset	—	—		
RHS	3,144,312	8/11/1964	Mertens	—	—		
RHS	3,208,198	9/28/1965	Rubin	—	—		
RHS	3,336,730	8/22/1967	McBride et al.	—	—		
RHS	3,338,681	8/29/1967	Kordesch	—	—		
RHS	3,350,176	10/31/1967	Green et al.	—	—		
RHS	3,368,329	2/13/1968	Eguchi et al.	—	—		
RHS	3,428,476	2/18/1969	Langley et al.	—	—		
RHS	3,439,474	4/22/1969	McKinley	—	—		
RHS	3,447,288	6/3/1969	Juda et al.	—	—		
RHS	3,450,500	6/17/1969	Setzer et al.	—	—		
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO	
RHS	GB 1032132	6/1966	United Kingdom	—	—	X	
RHS	JP 45-14404	5/1970	Japan	—	—		X
OTHER DOCUMENTS							
RHS		English-language abstract of Japanese Patent No. 1-262903, 1989.					
RHS		English-language abstract of Japanese Patent No. 3-242231, 1991.					
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RHS	3,469,944	9/30/1969	Bocard et al.	—	—	
RHS	3,520,803	7/21/1970	Iaconelli	—	—	
RHS	3,534,531	10/10/1970	Eguchi et al.	—	—	
RHS	3,564,819	2/23/1971	Neulander et al.	—	—	
RHS	3,665,680	5/30/1972	Heuser	—	—	
RHS	3,713,270	1/30/1973	Farr et al.	—	—	
RHS	3,761,382	9/25/1973	Hammond et al.	—	—	
RHS	3,787,038	1/22/1974	Tesner et al.	—	—	
RHS	3,881,891	5/6/1975	Goltsov et al.	—	—	
RHS	3,881,897	5/6/1975	Faure et al.	—	—	
RHS	3,920,416	11/18/1975	Houseman	—	—	
RHS	3,955,941	5/11/1976	Houseman et al.	—	—	
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
RHS	JP 45-2642	9/1970	Japan	—	—	X
RHS	JP 57-145276	9/1982	Japan	—	—	X
OTHER DOCUMENTS						
RHS		English-language abstract of Japanese Patent No. 432150, 1992.				
RHS		English-language abstract of Japanese Patent No. 513230, 1993.				
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RHS	3,972,695	8/3/1976	Buckley et al.	—	—	
RHS	3,982,910	9/28/1976	Houseman et al.	—	—	
RHS	4,003,725	1/18/1977	Bunn, Jr. et al.	—	—	
RHS	4,056,373	11/1/1977	Rubin	—	—	
RHS	4,084,934	4/18/1978	Kumazawa	—	—	
RHS	4,098,959	7/4/1978	Fanciullo	—	—	
RHS	4,132,668	1/2/1979	Gryaznov et al.	—	—	
RHS	4,134,739	1/16/1979	Gulden et al.	—	—	
RHS	4,238,403	12/9/1980	Pinto	—	—	
RHS	4,248,688	2/3/1981	Gartner et al.	—	—	
RHS	4,254,086	3/3/1981	Sanders	—	—	
RHS	4,302,177	11/24/1981	Fankhanel et al.	—	—	
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
RHS	JP 1-145302	6/1989	Japan	—	—	X
RHS	JP 1-145303	6/1989	Japan	—	—	X
OTHER DOCUMENTS						
RHS		English-language abstract of Japanese Patent No. 514790, 1993.				
RHS		English-language abstract of Japanese Patent No. 604070, 1994.				
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RHS	4,319,923	3/16/1982	Falanga et al.	—	—	
RHS	4,331,520	5/25/1982	Juda et al.	—	—	
RHS	4,422,911	12/27/1983	Juda et al.	—	—	
RHS	4,430,304	2/7/1984	Spurrier et al.	—	—	
RHS	4,468,235	8/28/1984	Hill	—	—	
RHS	4,472,176	9/18/1984	Rubin	—	—	
RHS	4,473,622	9/25/1984	Chludzinski et al.	—	—	
RHS	4,504,447	3/12/1985	Spurrier et al.	—	—	
RHS	4,533,607	8/6/1985	Sederquist	—	—	
RHS	4,567,857	2/4/1986	Houseman et al.	—	—	
RHS	4,583,583	4/22/1986	Wittel	—	—	
RHS	4,589,891	5/20/1986	Iniotakis et al.	—	—	
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
RHS	JP 1-262903	10/1989	Japan	—	—	X
RHS	EP 0434562 B1	6/26/1991	EPO	—	—	X
OTHER DOCUMENTS						
RHS		English-language abstract of Japanese Patent No. 634540.				
RHS		English-language abstract of Japanese Patent No. 710910, 1995.				
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
RHS	4,613,436	9/23/1986	Wight et al.	—	—	
RHS	4,654,063	3/31/1987	Auvil et al.	—	—	
RHS	4,655,797	4/7/1987	Iniotakis et al.	—	—	
RHS	4,657,828	4/14/1987	Tajima	—	—	
RHS	4,659,634	4/21/1987	Struthers	—	—	
RHS	4,699,637	10/13/1987	Iniotakis et al.	—	—	
RHS	4,713,234	12/15/1987	Weirich et al.	—	—	
RHS	4,788,004	11/29/1988	Pinto et al.	—	—	
RHS	4,810,485	3/7/1989	Marianowski et al.	—	—	
RHS	4,838,897	6/13/1989	Amano et al.	—	—	
RHS	4,849,187	7/18/1989	Uozu et al.	—	—	
RHS	4,865,624	9/12/1989	Okada	—	—	
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
RHS	JP 3-242231	10/1991	Japan	—	—	X
RHS	JP 4-338101	11/1992	Japan	—	—	X
OTHER DOCUMENTS						
RHS		English-language abstract of Japanese Patent No. 828793, 1996.				
RHS		English-language abstract of Japanese Patent No. 11116202, 1999.				
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
RHS	4,981,676	1/1/1991	Minet et al.	—	—	
RHS	4,999,107	3/12/1991	Guerif	—	—	
RHS	5,126,045	6/30/1992	Kohlheb et al.	—	—	
RHS	5,139,541	8/18/1992	Edlund	—	—	
RHS	5,158,581	10/27/1992	Coplan	—	—	
RHS	5,205,841	4/27/1993	Vaiman	—	—	
RHS	5,215,729	6/1/1993	Buxbaum	—	—	
RHS	5,217,506	6/8/1993	Edlund et al.	—	—	
RHS	5,225,080	7/6/1993	Karbachsch et al.	—	—	
RHS	5,226,928	7/13/1993	Makabe et al.	—	—	
RHS	5,229,102	7/20/1993	Minet et al.	—	—	
RHS	5,259,870	11/9/1993	Edlund	—	—	
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
RHS	JP 6-134244	5/1994	Japan	—	—	
RHS	WO 97/43796	11/1997	WIPO	—	—	
OTHER DOCUMENTS						
RHS		English-language abstract of Japanese Patent No. 1-145302.				
RHS		English-language abstract of Japanese Patent No. 1-145303.				
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U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL DATE IF APPROP.
RHS	5,326,550	7/5/1994	Adris et al.	—	—	
RHS	5,354,547	10/11/1994	Rao et al.	—	—	
RHS	5,376,167	12/27/1994	Broutin et al.	—	—	
RHS	5,382,271	1/17/1995	Ng et al.	—	—	
RHS	5,393,325	2/28/1995	Edlund	—	—	
RHS	5,401,589	3/28/1995	Palmer et al.	—	—	
RHS	5,432,710	7/11/1995	Ishimaru et al.	—	—	
RHS	Re. 35,002	7/25/1995	Matsubara et al.	—	—	
RHS	5,449,848	9/12/1995	Itoh	—	—	
RHS	5,458,857	10/17/1995	Collins et al.	—	—	
RHS	5,498,278	3/12/1996	Edlund	—	—	
RHS	5,500,122	3/19/1996	Schwartz	—	—	
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
RHS	WO 99/30806	6/1999	WIPO	—	—	X
RHS	WO 99/65097	12/1999	WIPO	—	—	X
OTHER DOCUMENTS						
RHS		English-language abstract of Japanese Patent No. 4-338101.				
RHS		English-language abstract of Great Britain Patent No. 2,305,186.				
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RHS	5,516,344	5/14/1996	Corrigan	—	—		
RHS	5,518,530	5/21/1996	Sakai et al.	—	—		
RHS	5,520,807	5/28/1996	Myrna et al.	—	—		
RHS	5,525,322	6/11/1996	Willms	—	—		
RHS	5,536,405	7/16/1996	Myrna et al.	—	—		
RHS	5,580,523	12/3/1996	Bard	—	—		
RHS	5,589,599	12/31/1996	McMullen et al.	—	—		
RHS	5,614,001	3/25/1997	Kosaka et al.	—	—		
RHS	5,637,259	6/10/1997	Galuszka et al.	—	—		
RHS	5,637,414	6/10/1997	Inoue et al.	—	—		
RHS	5,639,431	6/17/1997	Shirasaki et al.	—	—		
RHS	5,645,626	7/8/1997	Edlund et al.	—	—		
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO	
RHS	WO 00/27507	5/2000	WIPO	—	—	X	
RHS	EP 1065741 A2	1/3/2001	EPO	—	—	X	
OTHER DOCUMENTS							
RHS		English-language abstract of German language PCT Patent Application Serial No. WO 97/43796, 1997.					
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RHS	5,679,249	10/21/1997	Fendya et al.	—	—		
RHS	5,703,359	12/30/1997	Wampler, III	—	—		
RHS	5,734,092	3/31/1998	Wang et al.	—	—		
RHS	5,738,708	4/14/1998	Peachey et al.	—	—		
RHS	5,741,474	4/21/1998	Isomura et al.	—	—		
RHS	5,741,605	4/21/1998	Gillett et al.	—	—		
RHS	5,782,960	7/21/1998	Ogawa et al.	—	—		
RHS	5,795,666	8/18/1998	Johnssen	—	—		
RHS	5,811,065	9/22/1998	Sterenber	—	—		
RHS	5,821,185	10/13/1998	White et al.	—	—		
RHS	5,833,723	11/10/1998	Kuwabara et al.	—	—		
RHS	5,858,314	1/12/1999	Hsu et al.	—	—		
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO	
RHS	WO 01/28662	4/2001	WIPO	—	—	X	
RHS	WO 01/83086	11/2001	WIPO	—	—	X	
OTHER DOCUMENTS							
RHS		Adris, A. M., et al., "A Fluidized Bed Membrane Reactor for the Steam Reforming of Methane," The Canadian Journal of Chemical Engineering, Vol. 69, pp. 1061-70 (October, 1991).					
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RHS	5,861,137	1/19/1999	Edlund	—	—	
RHS	5,874,051	2/23/1999	Heil et al.	—	—	
RHS	5,888,273	3/30/1999	Buxbaum	—	—	
RHS	5,891,222	4/6/1999	Hilgendorff et al.	—	—	
RHS	5,904,754	5/18/1999	Juda et al.	—	—	
RHS	5,931,987	8/3/1999	Buxbaum	—	—	
RHS	5,932,181	8/3/1999	Kim et al.	—	—	
RHS	5,938,800	8/17/1999	Verrill et al.	—	—	
RHS	5,997,594	12/7/1999	Edlund et al.	—	—	
RHS	5,998,053	12/7/1999	Diethelm	—	—	
RHS	6,042,956	3/28/2000	Lenel	—	—	
RHS	6,045,772	4/4/2000	Szydlowski et al.	—	—	
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
OTHER DOCUMENTS						
RHS		Chai, M., et al., "Promotion of Methane Steam Reforming Using Ruthenium-Dispersed Microporous Alumina Membrane Reactor," Chemistry Letters, The Chemical Society of Japan, pp. 41-44 (1993).				
RHS		"Compact, Lightweight Fuel Reformer for Fuel Cells," Argonne National Laboratory/U.S. Department of Energy (July, 1996).				
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RHS	6,077,620	6/20/2000	Pettit	—	—	
RHS	6,083,637	7/4/2000	Walz et al.	—	—	
RHS	6,103,028	8/15/2000	Juda et al.	—	—	
RHS	6,103,411	8/15/2000	Matsubayashi et al.	—	—	
RHS	6,152,995	11/28/2000	Edlund	—	—	
RHS	6,165,633	12/26/2000	Negishi	—	—	
RHS	6,168,650	1/2/2001	Buxbaum	—	—	
RHS	6,171,574	1/9/2001	Juda et al.	—	—	
RHS	6,183,543	2/6/2001	Buxbaum	—	—	
RHS	6,190,623	2/20/2001	Sanger et al.	—	—	
RHS	6,201,029	3/13/2001	Waycuilis	—	—	
RHS	6,221,117	4/24/2001	Edlund et al.	—	—	
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
OTHER DOCUMENTS						
RHS		Edlund, Dr. David and William Pledger, "Development of a Compact and Economical Steam Reformer for Fuel-Cell Systems," Fifth Grove Fuel Cell Symposium, Commonwealth Institute, London, U.K., p. 6 (September 22-23, 1997).				
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RHS	6,238,465	5/29/2001	Juda et al.	—	—	
RHS	6,319,306	11/20/2001	Edlund et al.	—	—	
RHS	6,332,913	12/25/2001	Breitschwerdt et al.	—	—	
RHS	6,340,380	1/22/2002	Frost et al.	—	—	
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
OTHER DOCUMENTS						
RHS		Edlund, David J. and William A. Pledger, "The Practical Use of Metal-Membrane Reactors for Industrial Applications," The 1995 Membrane Technology Reviews, pp. 89-97 (November, 1994).				
RHS		Knapton, A. G., "Palladium Alloys for Hydrogen Diffusion Membranes," Platinum Metals Review, Vol. 21, 44-50 (1977).				
RHS		Ledjeff-Hey, K., et al., "Compact Hydrogen Production Systems for Solid Polymer Fuel Cells," Fifth Grove Fuel Cell Symposium, Commonwealth Institute, London, U.K., p. 17 (September 22-25, 1997).				
RHS		Menzer, R., et al., "Fuel Processing in Fuel Cell Systems for Mobile Applications - Gasoline as Energy Carrier On-Bord," Fifth Grove Fuel Cell Symposium, Commonwealth Institute, London, U.K., (no page no.), (September 22-25, 1997).				
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RHS	6,458,189	10/1/2002	Edlund et al.	—	—	
RHS	6,494,937	12/17/2002	Edlund et al.	—	—	
RHS	6,562,111	5/13/2003	Edlund et al.	—	—	
RHS	6,569,227	5/27/2003	Edlund et al.	—	—	
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
OTHER DOCUMENTS						
RHS		Minet, R. G., et al., "Experimental Studies of A Ceramic Membrane Reactor for the Steam/Methane Reaction at Moderate Temperatures (400-700°C)," Symposium on Natural Gas Upgrading II Presented before The Division of Petroleum Chemistry, Inc., Meeting of American Chemical Society, San Francisco, California, U.S.A., pp. 245-48 (April, 1992).				
RHS		Minet, R. G., et al., "Experimental Studies of A Ceramic Membrane Reactor for the Steam/Methane Reaction at Moderate Temperatures (400-700°C)," Symposium on Natural Gas Upgrading II Presented before The Division of Petroleum Chemistry, Inc., Meeting of American Chemical Society, San Francisco, California, U.S.A., pp. 245-48 (April, 1992).				
RHS		Oertel, Michael, et al., "Steam Reforming of Natural Gas with Integrated Hydrogen Separation for Hydrogen Production," Chemical Engineering Technology, Vol. 10, pp. 248-55 (1987).				
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